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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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STEIN, MCEWEN & BUI, LLP  
1400 EYE STREET, NW  
SUITE 300  
WASHINGTON, DC 20005

EXAMINER

NGUYEN, TU X

ART UNIT PAPER NUMBER

2684

DATE MAILED: 01/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/996,737	HONG ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tu X Nguyen	2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 December 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2-8 and 10-40 is/are pending in the application.
- 4a) Of the above claim(s) 1 and 9 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7, 8, 15 and 16 is/are allowed.
- 6) ☒ Claim(s) 2-6, 10-14, 17-33 and 35-40 is/are rejected.
- 7) ☒ Claim(s) 34 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of: \_\_\_\_\_
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Response to Amendment***

1. Applicant's arguments with respect to claims 2, 10 and 23 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 2-4, 6, 10, 12, 14, 17-33 and 36-40, are rejected under 35 U.S.C. 103(a) as being unpatentable over Sawada et al. (US Pub. 2001/0021663) in view of Arnold (US Pub. 2001/0044330).

Regarding claims 2, 10 and 23, Sawada et al. disclose an electronic apparatus comprising:

an electronic device including a body (see 21, fig.8); and  
a battery (22) coupled to the body to supply current to said electronic device, said battery further comprising a memory unit (42,43, fig.8 ) to store information (see par. 0041, 0055).

Wherein said battery comprises a primary power connector to connect to said electronic device to supply current to said electronic device (see par.008, 013-014).

Sawada et al. fail to disclose a secondary power output port arranged to receive insertion of a power cable of another device.

Arnold discloses a secondary power output port arranged to receive insertion of a power cable of another device (see par.010, 012, 037, fig.5D). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Sawada et al. with the above teaching of Arnold in order to provide a system connector pack for extension connected to another device.

Regarding claims 3 and 24-25, the modified Sawada et al. disclose connecting another electronic apparatus to the battery (see Sawada, par.051); and

Forming another communication pathway between another electronic apparatus and the memory unit to transfer the memory unit to transfer information between the memory unit and the another electronic apparatus (see fig.4).

Regarding claims 4 and 12, the modified Sawada et al. disclose communication port is installed to slide so that a free end of the communication port protrudes to connect to another device (see Arnold, fig.5D).

Regarding claim 6 and 14, Sawada et al. to disclose the memory unit is detachable from said battery (see Sawada, par.009).

Regarding claims 17-19, Sawada et al. disclose a drive to record and/or reproduce data with respect to a recording medium (see Arnold, par.012, "laptop computer" corresponds to recording medium).

Regarding claim 20, the modified Sawada et al. fail to disclose a printed circuit board arranged to connect said memory unit and said battery unit, and provide a communication

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pathway between said memory unit and the electronic device. The examiner takes an Official notice is taken that the concept a printed circuit board (PCB) is well known in the art. It would have been obvious a PCB provides communications paths between pluralities of electronic components as shown by Sawada (see 22, fig.8)

Regarding claims 21 and 33, the modified Sawada et al. disclose battery unit supplies the stored energy to said memory unit (see Sawada par. 0050).

Regarding claim 22, the modified Sawada et al. disclose power connectors to connect said battery unit to the electronic device to supply the stored energy to the electronic device (see Arnold, par.015).

Regarding claim 26, the modified Sawada et al. disclose the electronic apparatus and the another electronic apparatus are connected to the battery at the same time (see Arnold, par.037),

Regarding claims 27, the modified Sawada et al. disclose both the electronic apparatus and the another electronic apparatus are not connected to the battery at the same time (see Arnold, par.037).

Regarding claims 28, the modified Sawada et al. disclose detaching the battery from the electronic apparatus prior to said connecting the another electronic apparatus to the battery (see Arnold, par.037).

Regarding claim 29, the modified Sawada et al. disclose the electronic apparatus and the another electronic apparatus are of the same kind (see Arnold, par.037).

Regarding claim 30, the modified Sawada et al. disclose connecting the electronic apparatus to another battery (see Arnold, par.011).

Regarding claim 31, the modified Sawada et al. disclose detaching the battery from the electronic apparatus (see Arnold, par.011); connecting the electronic apparatus to another battery (see Arnold, par.011).

Regarding claims 32, the modified Sawada et al. disclose the another battery does not include another memory unit (see Arnold, par.011).

Regarding claim 33, the modified Sawada et al. disclose the memory unit detaching from the battery while the battery is connected to the electronic apparatus (see Sawada, fig.6).

Regarding claims 36 and 38-40, the modified Sawada et al. disclose the another device comprises a computer (see Arnold, par.012), portable phone, a PDA and combinations thereof.

Regarding claim 37, the modified Sawada et al. disclose the another device retrieves information stored in the memory (see Sawada, par.010).

4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sawada et al. (US Pub 2001/0021663) in view of Arnold and further in view of Gilbert (US Pub. 2001/0003205).

Regarding claim 11, the modified Sawada et al. fail to disclose a Universal Serial Bus connector.

Gilbert discloses a Universal Serial Bus connector (see par.021). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the modified Sawada with the above teaching of Gilbert in order to provide a host computer to USB connector for exchange information with mobile device.

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5. Claims 5 and 13, are rejected under 35 U.S.C. 103(a) as being unpatentable over Sawada et al. (US Pub 2001/0021663) in view of Arnold and further in view Griffith et al. (US Patent 6,917,280).

Regarding claims 5 and 13, the modified Sawada et al. fail to disclose communication port is disposed to be flipped out from a body of said battery at a predetermined angle.

Griffith et al. disclose a communication port is to be flipped out from a body at a predetermined angle (see col.7 lines 20-21). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the modified Sawada with the above teaching of Griffith et al. in order to provide a micro-size connector to conserve space.

6. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sawada et al. (US Pub 2001/0021663) in view of Arnold and further in view of SanGiovanni (US Pub. 2002/0102946).

Regarding claim 35, the modified Sawada et al. fail to disclose the another device comprises a personal digital assistant.

SanGiovanni discloses the another device comprises a personal digital assistant (see par.009). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the modified Sawada et al. with the above teaching of SanGiovanni in order to extend electronic functions for user needs.

***Allowable Subject Matter***

7. Claims 7-8 and 15-16 are allowed.
8. Claim 34 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding independent claims 7 and 15, the prior arts fails to teach "battery further comprising a memory unit to store information, wherein the memory unit comprises a disk drive using a disk as a recording medium", as cited in the claims.

Regarding dependent claim 34, the prior arts fail to teach "wherein the memory unit comprises a disk drive and a recording medium accessed by the disk drive, and further comprising detaching the recording medium from the memory unit while the battery is connected to the electronic apparatus", as cited in the claim.

**Conclusion**

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on




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the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 8:30AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MAUNG NAY A, can be reached at (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
January 10, 2006

EDAN ORGAD  
PATENT EXAMINER/TELECOMM.

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